Steve Olson

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ABOUT ME

Full Stack engineering leader with 8+ years of experience building systems for small and large companies (and myself). Very hands-on and enjoy owning team roadmaps, deliveries, and tech stacks top to bottom.

EXPERIENCE

Tribe Lead, Lead Software Engineer   May 2023 - Present

JPMorgan Chase, New York NY

Managed three teams in the International Consumer Bank engineering organization responsible for expansions planned for the Chase UK retail banking app:

- As Lead Engineer, created infrastructure to serve a technology demonstration of engineering products to JPMC's Operating Committee (including most of the C-Suite executives).
- Built out a new squad responsible for prototyping and building MVPs for new value-adds and propositions for new market segments.
- Led design and managed development and deployment of an overhaul to the Identity and Verification systems that onboard and authorize customers to the app (i.e. capture selfie + license/passport for KYC).
- Oversaw development and release of a Credit Monitoring feature for customers in the UK, with many rounds of coordinating testing and signoff from leadership before going live.

Engineering Manager, Senior Backend Engineer   Sept 2020 - March 2023

Spotify, New York NY

Leader in the Royalties and Reporting mission, focused primarily on developing systems to handle the massive amount of track-level ownership claims being made by publishers and labels in territories across the globe:

- As Engineering Manager, led a team of data engineers focused on data pipelines responsible for Spotify's billions of publishing royalty payouts. Oversaw a major data pipeline rework to cut costs and time, forecasted to save ~$1M/year in data processing costs.
- Owned end-to-end services for claims management from web portal to massive data pipelines which handles the millions of licensing claims on Spotify track plays, handling ownership of tracks and overclaims to guide accountants on invoice payouts.
- Lead architectural design and rapid prototype work for a company-wide payment ledger service for accountants to query and pivot balances across markets, products, licensors, royalty types, and deals, automating complex payment schedules such as advances and minimum guaranteed payouts.
- Refactored a central, expensive CQRS claims management system to a REST-ful system with zero downtime, in-place migration. Resulted in ~3 hrs/day time savings for the accounting team.
- Created an event-driven licensor file management system to instantly ingest and/or extract submitted claim files, historically a several day lag time.

Senior Data Engineer, Staff Engineer   Dec 2017 - Sept 2020

HBO, New York NY

Joined HBO as a Senior Data Engineer in 2017, overseeing a team of consultants working primarily on custom audience segmentation for HBO's digital offerings. Transitioned in 2019 to a Staff Engineer to contribute to the backend D2C subscription flow for HBO MAX at hbomax.com/subscribe:

- Led a team of three contracted Data Engineers to help develop complex pipelines to deliver and maintain ad segments through HBO's consumer offerings of HBO GO, HBO NOW, and MAX GO.

- Engineered and designed several ad segmentation and campaign management processes, using AWS EMR, Apache Airflow and Spark:
    - Designed and rolled out GDPR-compliant customer entity graph (150M vertices) for WarnerMedia's various entertainment arms (HBO, Cinemax, Turner) for campaign segmentation.
    - End-to-end aggregation and delivery of audience segments for marketing upcoming series on HBO MAX first subscriber prospects and HBO-branded content.
- Contributed to the backend and UX of HBO MAX purchase/subscription flow, including transaction model design, user transaction flow, and legacy service integrations with HBO GO/NOW. Also includes promotions, disputes, subscription status, and subscription migration (to App Store or other providers).

Software Data Engineer   Aug 2016 - Dec 2017

1010data, New York NY

Operated as a Data Engineer building internal and client-facing datasets on the Retail data division, working within a custom stack built on kdb+ with tooling in the proprietary K language:

- Developed extensive ETL processes for Fortune 500 client datasets, coordinating with services teams to build ingestion and transformation jobs for massive aggregate tables (ex. 10B+ rows of sales data).
- Led large-scale reorganization and extraction of internal logs from multiple system components to help internal teams track everything from client user sessions, and system load from query usage.

Technical Analyst   June 2015 - Aug 2016

Credit Suisse, New York NY

Joined Credit Suisse and was tasked with the discovery and onboarding of a real-time monitoring platform for on-premise infrastructure and servers. Hosted and built a web platform that internal teams could forward server metrics to Grafana using custom Python, Powershell, and JS packages.

TECHNOLOGIES

- **Languages**: Java, Kotlin, Typescript, Python, Golang, K
- **Web/Mobile**: NextJS, React, Node, Android, Django, Svelte
- **ML/Data**: Apache Beam, Scala, Pandas, Snowflake, Spark, Airflow
- **Infrastructure**: AWS, GCP, Docker, K8s, Istio, Ambassador, Helm, ElasticSearch
- **Databases**: SQL, Postgres, Cassandra, BigTable, Mongo, kdb+

PROJECTS

sql.haus

OSS instant sharing for SQL queries with syntax checks, built on Next.js, Supabase and Vercel.

Crossnoodle

Daily generative multiplayer crossword game, built on React, Node.js, Tailwind CSS, Docker, and Vercel.

Acct.Watch

Social media handle monitoring SaaS, built with Django and PostgreSQL on AWS ECS.

EDUCATION

Georgia Institute of Technology

M.S. in Computer Science, Specialization in Machine Learning, 2020-2022

Binghamton University

B.S. in Mechanical Engineering, Concentration in Computer Science, 2011-2015